



STR5100SS

Low V_f Schottky Barrier Rectifier

Voltage 100 V **Current** 5 A

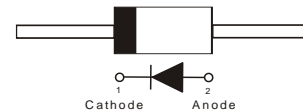
Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Low leakage
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DO-201AD Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 1.122 grams

DO-201AD



Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Current	$I_{F(AV)}$	5	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	100	A
Typical Thermal Resistance	(Note 1) $R_{\theta JC}$	19	$^{\circ}\text{C/W}$
	(Note 1) $R_{\theta JL}$	13	
Operating Junction Temperature Range	T_J	-55~150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^{\circ}\text{C}$



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	0.45	-	V
		$I_F = 3\text{ A}, T_J = 25^\circ\text{C}$	-	0.58	-	V
		$I_F = 5\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.74	V
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.37	-	V
		$I_F = 3\text{ A}, T_J = 125^\circ\text{C}$	-	0.54	-	V
		$I_F = 5\text{ A}, T_J = 125^\circ\text{C}$	-	0.62	-	V
Reverse Current ^(Note 2)	I_R	$V_R = 80\text{ V}, T_J = 25^\circ\text{C}$	-	1.4	-	uA
		$V_R = 100\text{ V}, T_J = 25^\circ\text{C}$	-	-	50	
		$V_R = 100\text{ V}, T_J = 125^\circ\text{C}$	-	1.9	-	mA

NOTES :

1. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.
2. Short duration pulse test used to minimize self-heating effect.



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TYPICAL CHARACTERISTIC CURVES

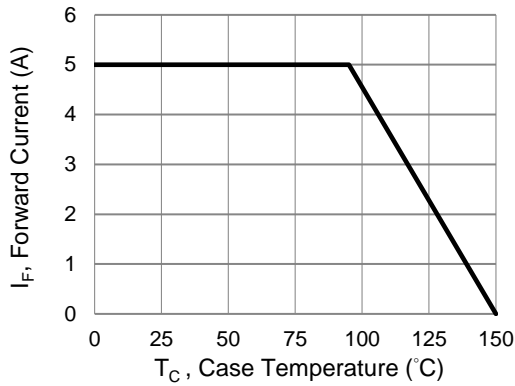


Fig.1 Forward Current Derating Curve

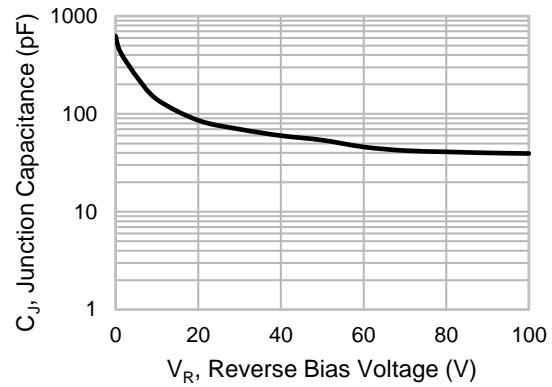


Fig.2 Typical Junction Capacitance

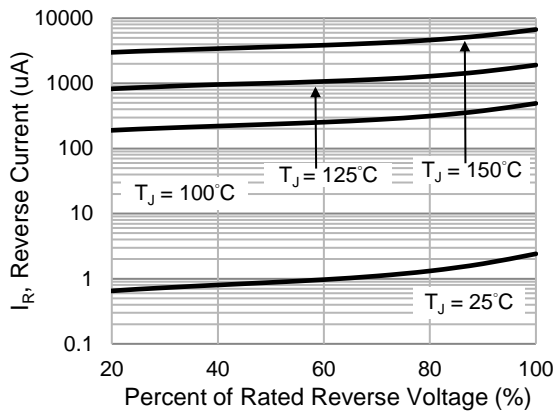


Fig.3 Typical Reverse Characteristics

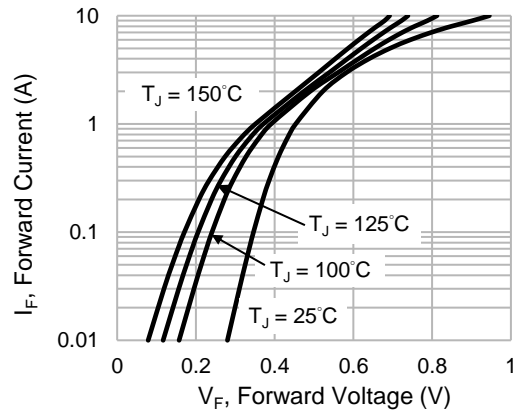


Fig.4 Typical Forward Characteristics

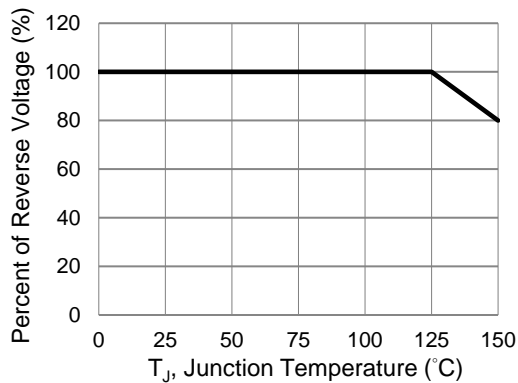


Fig.5 Operating Temperature Derating Curve

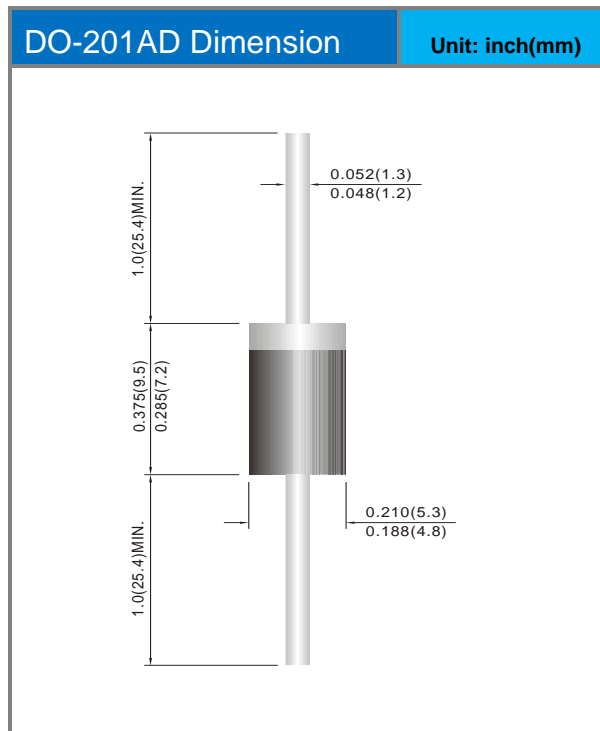


STR5100SS

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR5100SS_AY_00301	DO-201AD	1250pcs / Ammo	STR5100SS	Halogen free RoHS compliant

Packaging Information





STR5100SS

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